

VALVE AND HYDRANT MECHANIC

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DEPARTMENT: James City Service Authority/Utility Operations

NATURE OF WORK:

Performs skilled work and manual labor in the maintenance and repair of water and sewer valves and fire hydrants in the James City Service Authority's water and sewer system.

Duties are performed under the limited supervision of the Utility Operations Specialist.

ESSENTIAL FUNCTIONS OF THE JOB:

Locates and marks water and sewer valves in the James City Service Authority's water and sewer systems by using drawings and/or a metal detector.

Ensures that fire hydrant branch valves, in-line water valves, and force main valves are clearly identifiable and operational. Checks valves on a routine schedule to ensure they open and close properly. Performs any necessary maintenance and repair. Raises fire hydrant branch valves and in-line valve boxes to proper height as necessary.

Maintains fire hydrants in the County. Performs routine preventive maintenance to internal components on a scheduled basis. Performs repairs to nonoperational or damaged hydrants. Replaces hydrants when necessary. Raises hydrants to proper height when necessary.

Paints all fire hydrants on a scheduled basis; locates associated water valves, paints covers and marks location.

Cuts grass, weeds, and brush from around fire hydrants and water and sewer valves to ensure ability to locate.

Sketches location of water and sewer valves by measuring from an identified landmark, creating a valve and fire hydrant guide for future use.

Completes work orders on a daily basis.

Ensures cleanliness and preventive maintenance of County assigned vehicle.

Checks pressure in force main lines and blows off as necessary.

Determines parts and tools needed to perform work; orders from the warehouse.

Researches vendor catalogs and writes specifications for parts required to repair fire hydrants. Works with Service Authority Warehouse to order the parts.

Assists on water or sewer crews as assigned or in emergency situations.

Responds to emergency calls at all hours.

Performs work safely in accordance with departmental safety procedures and the County Safety Program. Operates equipment safely and reports any unsafe work condition or practice to supervisor.

Performs other related duties as assigned.

JOB LOCATION AND EQUIPMENT OPERATED:

Duties are performed outdoors in all weather conditions. Requires manual labor, including digging and heavy lifting. Requires considerable walking sometimes over uneven terrain. Work frequently performed along roadsides in hazardous locations.

Drives County vehicle. Operates a variety of hand tools and power equipment in the performance of duties. Operates metal detector.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:

Considerable knowledge of valve maintenance and repair.

Considerable knowledge of the safe and effective use and operation of wide variety of hand and power tools and equipment.

Knowledge of fire hydrant maintenance and repair.

Knowledge of methods for locating unknown underground valves.

Knowledge of all waterlines, sewer force mains and associated valves.

Ability to read drawings and blueprints to locate valves.

Ability to work independently without close supervision.

Ability to work in disagreeable conditions.

Ability to perform strenuous physical labor.

Ability to follow oral and written instructions.

Ability to deal courteously and effectively with coworkers and the general public.

MINIMUM QUALIFICATIONS:

High school diploma or equivalent preferred, and experience in water and sewer line maintenance and repair, including valve maintenance; knowledge of fire hydrant maintenance desirable; or any equivalent combination of education and experience providing the knowledge, skills and abilities cited above.

NECESSARY SPECIAL QUALIFICATIONS:

Must possess a valid Virginia driver's license and have an acceptable driving record based upon James City County's criteria.